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Date:

February 21, 2006

Kayl Gavin

PATENT

Docket No. GC779-2-US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Cervin et al.)
33. v.m. 3. u.n.) Group Art Unit: Unassigned
) Examiner: Unassigned
Serial No.: 10/527,827) Confirmation No. 4369
Filed: March 15, 2005) Committation No. 4309
For: IMPROVED PRODUCTION OF)
BACTERIAL STRAINS CROSS)
REFERENCE TO RELATED)
APPLICATIONS)

By:

Information Disclosure Statement

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Applicants submit herewith patents, publications or other information (listed on the attached Form PTO-1449 and attached thereto) of which they are aware, that they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

This Information Disclosure Statement:

as set forth in 37 CFR §1.491.

(a) <u> </u>	ecompanies the new patent application submitted herewith. 3	37 CFR
· · · —	filed within three months after the filing date of the applicationths after the date of entry into the national stage of a PCT a	

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	(c) as far as is known to the undersigned, is filed before the mailing date of a first Office Action on the merits.
	(d) is filed after the first Office Action and more than three months after the application filing date or PCT national stage date of entry filing but, as far as is known to the undersigned, prior to the mailing date of either a final rejection or a notice of allowance, whichever occurs first, and is accompanied by either the fee (\$180.00) set forth in 37 CFR §1.17(p) or a certification as specified in 37 CFR §1.97(e), as checked below. Authorization to charge Deposit Account No. 07-1048 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement is provided in the Transmittal Letter submitted herewith in duplicate.
	(e) is filed after the mailing date of either a final rejection or a notice of allowance, whichever occurred first, and is accompanied by authorization (in the Transmittal Letter submitted herewith in duplicate) to charge Deposit Account No. 07-1048 the fee (\$180.00) set forth in 37 CFR §1.17(I)(1) and a certification as specified in 37 CFR §1.97(e), as checked below. This document is to be considered as a petition requesting consideration of the Supplemental Information Disclosure Statement.
[If either of b	oxes (d) or (e) is checked above, the following "certification" under 37 CFR
§1.97(e) may	need to be completed.] The undersigned certifies that:
	Each item of information contained in the Information Disclosure Statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
	No item of information contained in this Information Disclosure Statement was cited in a communication mailed from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
• •	items on Form PTO-1449 is supplied: PCT International Search Report for
	445, filed October 3, 2003 and with attached patents and publications. EP
	Search Report for EP 03 77 4572, filed November 10, 2005 and with attached
	ublications. EP Supplementary Partial International Search Report for EP 03 80
8137, filed No	ovember 10, 2005 and with attached patents and publications.
⊠ ead	ch none only those listed below:

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A concise explanation of relevance of the items listed on PTO-1449 is:

	given for only non-English language listed item(s) in the form of an English language copy of a Search Report from a
	given for each listed item given for only non-English language listed item(s)
\boxtimes	not given

The Examiner is reminded that a "concise explanation of the relevance" of the submitted prior art "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention." MPEP §609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR §1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR §1.97(b), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR §1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR §1.98 and MPEP §609 and the Examiner is respectfully requested to consider the listed reference.

Respectfully submitted,

Date: February 21, 2006

Registration No. 34 869

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INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC7	79-2-US PE	Serial No.: 10/527,827
Applicant: Cervin et al.		
Filing Date:	in anne in	Group: Unassigned
Page1 of1	FEB X X E	Date of this Submission: February 21, 2006
US PATENT DOCUMENTS		

US PATENT DOCUMENTS

Examiner's	Document	Ĺ			Sub-	Filing
Initial	Number	Date	Name	Class	Class	Date

FOREIGN PATENT DOCUMENTS

Examiner's	Document				Sub-	Translation
Initials	Number	Date	Country	Class	Class	Yes/No
	WO 03089604	10/30/03	PCT			

	OTHER DOCU	UMENTS				
Examiner's						
Initials	Author, Title, Date, Pertinent Pages, etc.					
	Baez-Viveros, et al., Determination of 3-deoxy-D-arabino-heptulosonate 7-phosphate productivity and yield from glucose in Escherinchia coli devoid of the glucose phosphotransferease transport system, » Biotechnology and Bioengineering, V. 73, N. 6, 20 June 2001, pp. 530-535					
	Baez-Viveros, et al., « Metabolic engineering and protein directed evolution increase the yield of L-phenylalanine synthesized from glucose in Eschercoli. » Biotechnology and Bioengineering, V. 87:4, 20 August 2004, pp. 516-524					
·	Cunningham, L. et al., « Transcription and transcript processing in the sdhCDAB—sicABCD operon of Escherichia coli, » Microbiology, (1998), 44, 21 2123					
	Flores et al., « Adaptation for fast growth on glucose by differential expression of central carbon metabolism and gal regulon genes in an Excherichia strain lacking the phosphoenolpyruvate: carbohydrate phosphotransferease system, » Metabolic Engineering, Academic Press, US, V. 7:2, March 2 pp. 70-87					
	Gosset, et al., « A direct comparison of approaches for increasing of S. for Industrila Micro., NL., V.17, N. 1, July 1996, pp. 47-52	carbon flow to aromatic biosynthesis in escherichia coli, » J. Of Industrial Microbiology				
	Hernandez-Montalvo V. Et al., « Characterization of sugar mixtures Applied Microbiology and Biotechnology, V.57:1-2, 7/24/01, pp 186	s utilization by an Excherichia coli mutant devoid of the phosphotransferease system, : 3-191				
	Hernandez-Montalvo V. Et al., «Expression of galP and glk in a Excherichia coli PTS mutant restores glucose transport and increases glycolytic flux to fermentation products, »: B and B. Combinatorial Chemistry, Wiley, NY, NY, V.83:6, June 23, 2003 pp. 687-694:					
	luchi, S. et al., « Adaption of excherichia coli to redox environmentsx by gene expression, » Molecular Microbiology, V. 9, N. 1, 1993, pp. 9-15					
	luchi, S. et al., « Arca (Dye), a gloval regulatory gene in excherichia coli mediating repression of enzymes in aerobic pathways, »Proceedings of the Natl. Acad. Of Sciences of USA, National Academy of Science, Washington, DC, US., V. 85, N. 6, March 1988, pp. 1888-1892					
	Jeon, Y. et al., « Multimerizatin of Phosphorylated and Non-phosphorylated ArcA Is Necewssary for the Response REgulator Function of the Arc Two-component Signal Transduction System, » J. of Biological Chem., V. 276:44, Issue of Nov. 2, pp. 40873-40879 Nystrom, T. et al., « Bacterial Defense Aging: Role of the Escherichia Coli ArcaRegulator in Gene Expression, Readjusted Energy Flux and Survival during stasis, » Embo J., V. 15, N. 13, 1996 pp. 3219-3228 Perrenoud, A. et al., « Impact of global transcriptional regulation by ArcA, ArcB, Cra, Crp, Cya, Fnr, and Mlc on glucose catabolism in Echerichia coli, » Jof Bact., V. 187, N. 9, May 2005, pp. 3171-3179 Prohl, C. et al., « Functional citric acid cycle in an arcA mutant of Escherichia coli during growth with nitrate under anoxic conditions, » Archives of Micro., V. 170, N.1, July 1998,pp. 1-7					
	Valle, et al., « Overexpression of chromosomal genes in Escherich	nia coli, » Method in Molecular Biology (Clifton, N. J.), V. 267, 2004, pp.113-122				
	Wyborn, N. et al., « Expression of the Escherichia coli yfiD gene responds to intracellular pH and reduces the accumultion of acidic metabolic end products, » Microbiology, 2002, 148, pp. 1015-1026					
Examiner		Date Considered				
Examiner: Initi	al if reference considered, whether or not citation is in conformance	ce with MPEP 609; draw line through citation if not in conformance and not				
considered. In	clude copy of this form with next communication to applicant.	PTO-1449				

GC IDS-1449